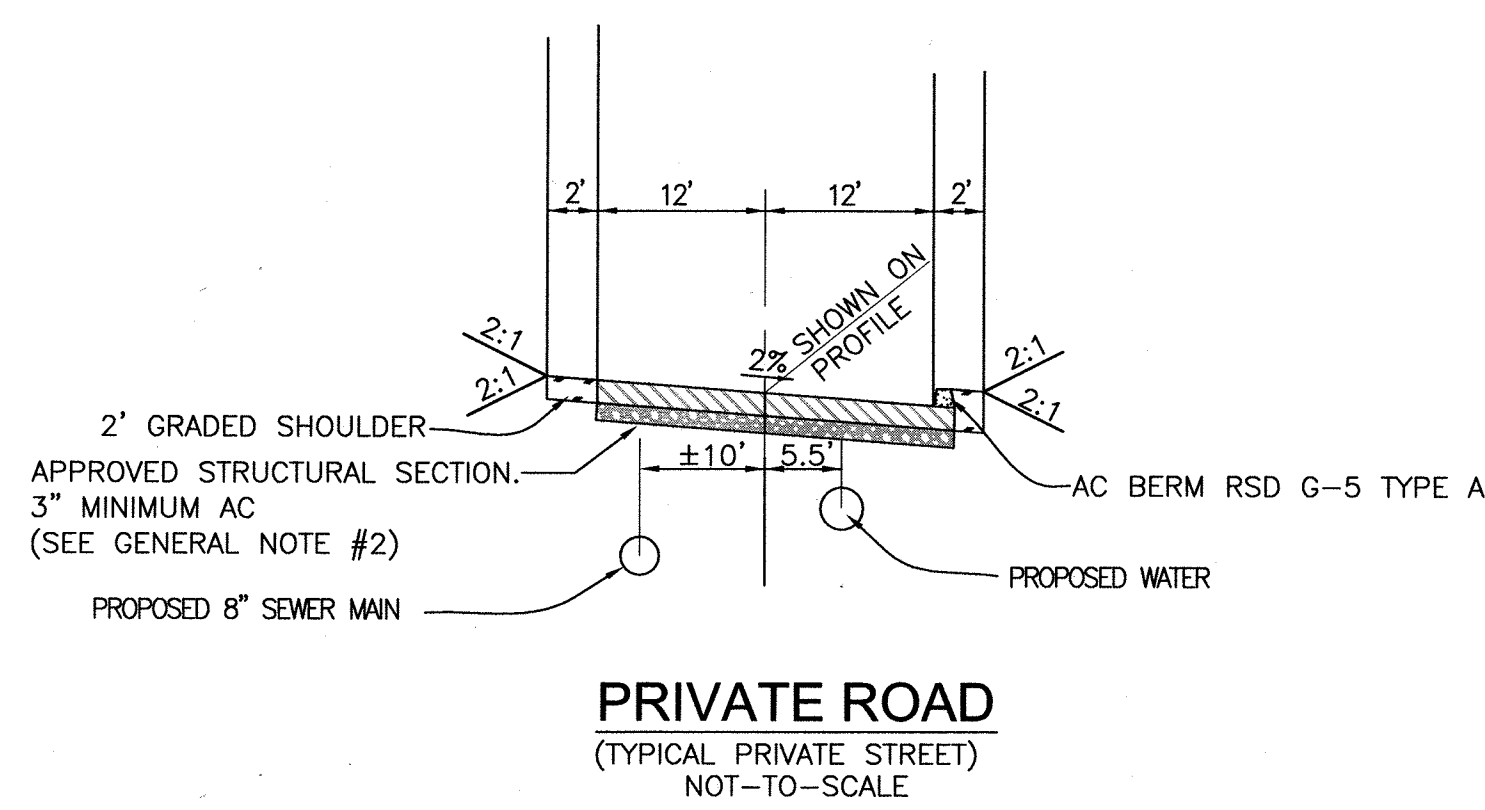
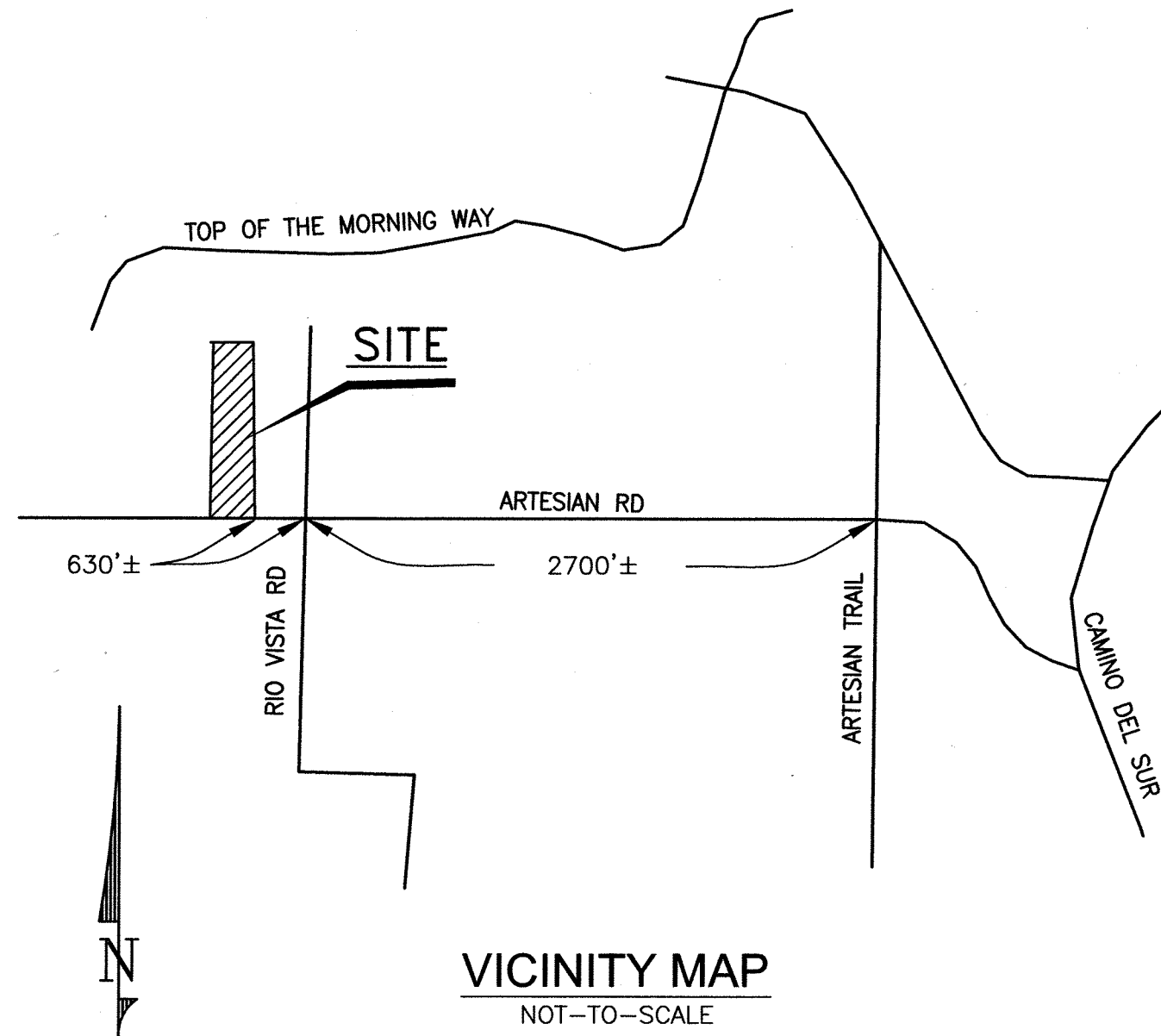


COUNTY OF SAN DIEGO TENTATIVE PARCEL MAP 17341
IMPROVEMENT PLANS FOR PROPOSED ROAD (Private Road 3.1C)



LEGAL DESCRIPTION

PARCELS 1, 2, 3 & 4 OF TENTATIVE PARCEL MAP NO. 17341 OF COUNTY OF SAN DIEGO PARCEL MAP 13133
RECORDED FEBRUARY 13th, 1984 AS FILE NO. 84-053238

APN: 267-145-09, 10, 11, & 12

SITE ADDRESS

ARTESIAN ROAD NEAR RIO VISTA ROAD

OWNER'S CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.
IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PUBLIC WORKS DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS.
I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING COUNTY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

RICHARD D BAGLEY
28967 PALOS VERDES DR. EAST
RANCHO PALOS VERDES, CA. 90275-5252
(310) 852-3557

BY: RICHARD D. BAGLEY, OWNER DATE:

DEVELOPER/PERMITTEE

RICHARD D BAGLEY
28967 PALOS VERDES DR. EAST
RANCHO PALOS VERDES, CA. 90275-5252
(310) 852-3557

SOILS ENGINEER CERTIFICATION:

THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS AS OUTLINED IN OUR UPDATED SOILS AND GEOTECHNICAL INVESTIGATION FOR THIS PROJECT. THE SOILS REPORT SHALL BE CONSIDERED PART OF THIS PLAN, AND ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE
DATED:

GE: EXP.: DATE:

I CERTIFY THAT THE PRIVATE ROAD IMPROVEMENTS AS SHOWN ON THIS PLAN SATISFIES THE REQUIREMENTS AS STATED IN THE FINAL NOTICE OF APPROVAL FOR T.P.M. 17341 AND THE STANDARDS FOR PRIVATE STREETS.

Ivan Fox DATE: 7/2/13
IVAN FOX RCE# 38144

INSPECTION BY: _____ ENGINEER OF WORK
☒ COUNTY
SECURITY REQUIRED:
☒ YES
☐ NO

THE COUNTY IS NOT LIABLE FOR THE DESIGN IN ANYWAY. REVIEWED FOR CLARITY ONLY.
BY: _____ DATE: _____
FOR COUNTY ENGINEER

PREPARED BY:

SAN DIEGUITO ENGINEERING, INC.
4407 MANCHESTER AVENUE, SUITE 105
ENCINITAS, CALIFORNIA 92024
PHONE: (619)753-5525

SHEET INDEX

SHEET NO. 1 TITLE SHEET
SHEET NO. 2 NOTES
SHEET NO. 3 PLAN & PROFILE (STREET & WATER)
SHEET NO. 4 SEWER PLAN
SHEET NO. 5 EROSION CONTROL

WORK TO BE DONE

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS; THE CURRENT COUNTY OF SAN DIEGO DEP'T OF PUBLIC WORKS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR IMPROVEMENT OF SUBDIVISION STREETS AND STANDARD REFERENCE DRAWINGS, AND PER THE CURRENT OLIVENHAIN MUNICIPAL WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS FOR THE CONSTRUCTION OF WATER, RECYCLED WATER, AND SEWER FACILITIES.

| IMPROVEMENTS | STD. DWG. | SYMBOLS |
|--|-----------|---------|
| FILL SLOPES (2:1) | | |
| CUT SLOPES (2:1) | | |
| CONSTRUCT A.C. STRUCTURAL SECTION | | |
| INSTALL AC BERM (TYPE A) | G-5 | |
| BROW DITCH RSD | D-75 | |
| RIP-RAP (AS SHOWN ON PLAN) | D-40 | |
| STREET NAME SIGN | DS-13 | |
| NO PARKING BOTH SIDES SIGN (EVERY 75' PER RSF FIRE DEPARTMENT STANDARDS) | M-45 | |

R.S.F. COMMUNITY SERVICES DISTRICT
SEWER IMPROVEMENTS

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE SAN DIEGO REGIONAL SUPPLEMENT TO THE S.S.P.W.C. AS LAST AMENDED, AND THE SAN DIEGO REGIONAL STANDARD DRAWINGS AS LAST AND THE WATER AGENCY STANDARDS (WAS).

| IMPROVEMENTS | STD. DWG. | SYMBOLS |
|-----------------------------------|-----------|---------|
| INSTALL 8" PVC SEWERLINE (SDR-35) | SP-02 | |
| INSTALL MANHOLE | SM-01 | |
| INSTALL 4" SEWER LATERAL | SS-01,03 | |
| INSTALL 4" PUMP LATERAL | SC-01 | |

OLIVENHAIN MUNICIPAL WATER DISTRICT
WATER IMPROVEMENTS

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS; THE OLIVENHAIN MUNICIPAL WATER DISTRICT CURRENT STANDARD DRAWINGS AND SPECIFICATIONS FOR THE CONSTRUCTION OF WATERMAINS & FACILITIES AND THE CURRENT SAN DIEGO REGIONAL STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

| IMPROVEMENTS | STD. DWG. | SYMBOLS |
|---|-----------|---------|
| CONSTRUCTION OF WATER MAINS | E-2.1 | |
| CONSTRUCTION OF FIRE HYDRANT ASSEMBLY | C-1.1 | |
| CONSTRUCTION OF BLOW-OFF ASSEMBLY | A-1.1 | |
| CONSTRUCTION OF 8" TEE | D-3.3 | |
| CONSTRUCTION OF 1" WATER SERVICE ASSEMBLY | B-1.1 | |
| 2" MANUAL AIR RELEASE VALVE | A-2.1 | |

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

SAN DIEGUITO ENGINEERING, INC.
4407 MANCHESTER AVENUE, SUITE 105
ENCINITAS, CALIFORNIA 92024
(619) 753-5525

Ivan R Fox
IVAN R FOX RCE 38144
DATE: 7/2/13

PERMITS

CURB GRADE IMPROVEMENT PLAN
PLANNED DEVELOPMENT PERMIT NO. _____
BOUNDARY ADJUSTMENT NO. _____
MAJOR USE PERMIT
N.O.I. PERMIT NO. _____
TPM 17341, PM 13133:
TENTATIVE MAP NO. TPM 19818, PM 17478
GRADING PERMIT NO. L-15684
SPECIFIC PLAN AMENDMENT

BENCH MARK

DESCRIPTION: NORTHWEST BRASS PLUG - TOP INLET
LOCATION: CAMINO DEL SUR AT ARTESIAN ROAD
RECORD FROM: CITY OF SAN DIEGO
ELEVATION: 469.47 DATUM: M.S.L.

PRIVATE CONTRACT

SHEET 1 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 6 SHEETS
IMPROVEMENT PLANS FOR:
COUNTY OF SAN DIEGO
TENTATIVE PARCEL MAP NO. 17341
PRIVATE ROAD
CAL. COORD. 310-1719 OMWD MAIN EXT. 251
Recommended for Approval: N/A SUBDIVISION ENGINEER
Approved: PVT. - SEE ABOVE DIRECTOR OF PUBLIC WORKS
Engineer of Work: *Ivan R Fox*
IVAN R FOX RCE 38144
Checked by: _____
Approval date: TPM 17341



RANCHO SANTA FE FIRE DISTRICT

APPROVED BY: *Renee Hill*

DATE: 7-12-13

FIRE FLOW REQ: 2,500 GPM

SAN DIEGUITO ENGINEERING, INC.
4407 MANCHESTER, SUITE 105
ENCINITAS, CA 92024
PHONE: (760) 753-5525

CIVIL ENGINEERING • PLANNING
LAND SURVEYING



COUNTY OF SAN DIEGO ENVIRONMENTAL SERVICES UNIT

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW AND IN SUBSTANTIAL CONFORMANCE WITH TPM 17341

APPROVED BY: _____

OLIVENHAIN MUNICIPAL WATER DISTRICT

POTABLE WATER SYSTEM APPROVAL

APPROVED BY: _____

R.C.E. DATE: _____
NOTE: SIGNATURE EXPIRES 2 YEARS AFTER DATE

SEWER AGENCY

RANCHO SANTA FE COMMUNITY SERVICES DISTRICT

APPROVED BY: _____

VALID FOR 2 YRS FROM DATE

DATE: _____

| COUNTY APPROVED CHANGES | | | |
|-------------------------|-------------|-------------|------|
| No. | Description | Approved by | Date |
| | | | |

MAIN EXT. 145B (CALLE PONTE BELLA)
ENGINEER'S NAME: SAN DIEGUITO ENGINEERING, INC.
PHONE NO. (760) 753-5525

COUNTY OF SAN DIEGO TENTATIVE PARCEL MAP 17341
IMPROVEMENT PLANS FOR PROPOSED ROAD (Private Road 3.1C)

SEWER NOTES:

RANCHO SANTA FE CSD, WHISPERING PALMS CSD, FAIRBANKS RANCH CSD

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, THE SAN DIEGO STANDARD SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE AND THE FOLLOWING SPECIAL PROVISIONS.

- ALL DESIGN CHANGES OF SEWER MAINS SHALL BE APPROVED BY THE DISTRICT'S ENGINEER IN WRITING PRIOR TO CONSTRUCTION AND ACCEPTANCE FOR PUBLIC USE.
- CONTRACTOR OR OWNER SHALL OBTAIN A SEWER CONSTRUCTION PERMIT AND DEPOSIT THE APPROPRIATE INSPECTION FEES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AT THE OFFICE OF DUDEK AND ASSOCIATES, INC. (760) 942-5147, 605 THIRD STREET, ENCINITAS, CA 92024, FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK TO ARRANGE FOR INSPECTION OF THE PROJECT.
- CONTRACTOR SHALL OBTAIN A PERMIT FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION WITHIN EXISTING COUNTY RIGHT-OF-WAY.
- ALL SEWER/WATER MAIN CROSSINGS SHALL CONFORM TO SECTION 64572, TITLE 22 OF THE CALIFORNIA ADMINISTRATIVE CODE. A MINIMUM LATERAL SEPARATION OF 10 FEET BETWEEN PARALLEL WATER MAINS AND SEWER MAINS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN.
- "AS-BUILT" DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF THE WORK. AS-BUILTS SHALL SHOW THE CONTRACTOR SHALL AND HEREBY DOES GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER AND SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING, THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE ONE YEAR PERIOD FROM DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE DISTRICT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE DISTRICT SHOP DRAWINGS (CUT-SHEETS) REPRESENTING MATERIALS AND SUPPLIERS (IE/PIPE, MANHOLE BASES & SHAFTING, GASKETS, ETC.) FOR DISTRICT APPROVAL.
- SOIL COMPACTION TESTS SHALL BE REQUIRED DURING AND UPON COMPLETION OF TRENCH BACKFILL. THE NUMBER AND LOCATION OF SUCH TESTS SHALL BE AT THE DISCRETION OF THE DISTRICT. ALL COSTS ASSOCIATED WITH PERFORMING SOIL COMPACTION TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE.
- TRENCH WIDTH SHALL BE PER SDRSD SP-02 UNLESS OTHERWISE SHOWN.
- ALL PIPE SHALL HAVE 4-INCH MINIMUM OF 3/4 INCH CRUSHED ROCK BENEATH THE PIPE.
- P.V.C. PIPE BEDDING FROM BOTTOM OF PIPE TO TWELVE (12) INCHES MINIMUM ABOVE THE PIPE SHALL BE 3/4 INCH CRUSHED ROCK.
- ALL GRAVITY SEWER MAINS SHALL BE 8-INCH HDPE, UNLESS OTHERWISE SHOWN ON THE PLANS. SEWER MAIN LENGTHS, AS INDICATED ON THE PLANS, ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
- ALL SEWER LATERALS SHALL BE 4-INCH PVC, SDR35, UNLESS OTHERWISE SHOWN HEREON. SEWER LATERALS SHALL BE CONSTRUCTED TO PROPERTY LINE AND SHALL BE 5 FEET BELOW EXISTING GRADE UNLESS OTHERWISE SHOWN ON THE PLANS.
- THE CONSTRUCTION OF 4-INCH SEWER LATERALS SHALL BE PER SDRSD NO'S SS-01, 02, 03 & 04, AND DETAILS SHOWN ON THESE PLANS. LATERALS SHALL NOT DISCHARGE DIRECTLY INTO A MANHOLE, UNLESS SHOWN HEREON OR APPROVED BY THE DISTRICT.
- ALL MANHOLES WITHIN 1000 FEET OF A SEWER LIFT STATION, MEASURED BY SEWER MAIN LINE LENGTH, SHALL BE COATED WITH CRANDAL'S POLYURETHANE, OR EQUIVALENT, TO THE SATISFACTION OF THE DISTRICT.
- ALL PRIVATE SEWER FORCE MAIN SHALL BE 3-INCH PVC, SCHEDULE 40, UNLESS OTHERWISE SHOWN ON THE PLANS. THE FORCE MAIN SHALL HAVE A 0.2% (2 FEET PER 1000 MINIMUM UPWARD SLOPE TOWARD THE OUTLET OF 0.2 FEET). THE FORCE MAIN SHALL NOT DISCHARGE DIRECTLY INTO THE SEWER MAIN.
- PRIOR TO POURING OF MANHOLE BASE, CONTRACTOR SHALL INSTALL A LENGTH OF PIPE NOT GREATER THAN 4' FOR ALL INLET(S) AND OUTLET AT THE PROPER GRADE AND DIRECTION, EACH FITTED WITH A MANHOLE ADAPTER AS MADE BY GPK PRODUCTS, INC.
- JOINTS BETWEEN MANHOLE BASE, SHAFTING, CONE SECTIONS(S) AND RING SHALL HAVE A 2" X 2" BUTYL RUBBER GASKET PLACED WITHIN THE FULL CIRCUMFERENCE. GASKET SHALL BE CPS-210 BY PRESS-SEAL GASKET CORP. OR APPROVED EQUAL.
- THE CONSTRUCTION OF PVC SEWER MANHOLES SHALL BE PER SDRSD SM-01 AND DETAILS SHOWN ON THESE PLANS. POURED IN PLACE MANHOLE BASES SHALL BE MONOLITHICALLY POURED, FINISHED AND COMPLETED AT THE TIME OF POUR. PRECAST MANHOLE BASES ARE ACCEPTABLE FOR USE WITH 8-INCH.
- FILL AREAS MUST BE COMPACTED TO 90% PRIOR TO PIPE INSTALLATION.
- DEWATERING: ALL UNDERGROUND PIPING AND STRUCTURES SHALL BE INSTALLED IN DRY EXCAVATIONS AND TRENCHES. THE CONTRACTOR SHALL PERFORM DEWATERING AS REQUIRED AND SHALL MAINTAIN DEWATERING SYSTEMS IN CONTINUOUS OPERATION UNTIL THE INVOLVED WORK IS COMPLETED INCLUDING THE PLACING AND COMPACTION OF BACKFILL MATERIALS IN A DRY STATE.
- ALL MAINS AND LATERALS SHALL BE CONSTRUCTED WITH 42-INCH MINIMUM COVER UNLESS OTHERWISE SHOWN, OR ENCASED WITH PRIOR PERMISSION FROM THE DISTRICT.
- ANY DOMESTIC UTILITY SERVICE LINES THAT INTERFERE WITH THE WORK SHALL BE PROTECTED OR REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR. IF REMOVED, THE CONTRACTOR SHALL FURNISH TEMPORARY UTILITY SERVICE UNTIL THE LINES ARE REPLACED BY NEW PERMANENT SERVICE. REPLACEMENT LINES SHALL BE THE SAME SIZE AND MATERIAL AS THOSE THAT WERE REMOVED.
- THE CONTRACTOR SHALL FURNISH AND INSTALL, PER SPECIFICATIONS, THE APPROPRIATE BURIED UTILITY WARNING AND IDENTIFICATION TAPE ABOVE ALL PUBLIC SEWER MAINS AND SEWER LATERALS LOCATED IN PUBLIC RIGHT-OF-WAY. THIS WARNING TAPE SHALL CONSIST OF POLYETHYLENE PLASTIC TAPE, MANUFACTURED SPECIFICALLY FOR WARNING AN IDENTIFICATION OF BURIED UTILITY LINES, SHALL BE OF THE TYPE PROVIDED IN ROLLS, SIX (6) INCH MINIMUM WIDTH, GREEN COLOR, CODED WITH LETTERS CONTINUOUSLY AND REPEATEDLY, OVER THE ENTIRE TAPE LENGTH. TAPE SHALL BE CUT UP IN 20-FOOT LENGTH SEGMENTS AND SHALL BE PLACED 2 FEET ABOVE THE TOP OF THE PIPE.
- ALL MANHOLES SHALL MAINTAIN A MINIMUM INVERT SLOPE OF 2.5% UNLESS OTHERWISE SHOWN.
- CONCRETE COLLARS SHALL BE CONSTRUCTED ON ALL MANHOLES PER DETAILS SHOWN ON THESE PLANS.
- TRENCH RESURFACING IN PAVED AREAS SHALL CONFORM TO SDRSD G-24 AND G-25. THE WEARING SURFACE OF ALL NEW PAVEMENT SHALL MATCH THE EXISTING SURFACE FOR MATERIAL SIZE, TYPE, THICKNESS, AND TEXTURE. THIS INCLUDES, BUT IS NOT LIMITED TO, ASPHALT CONCRETE, CHIP SEAL, AND/OR SLURRY SEAL.
- MANHOLE RIM ELEVATIONS REPRESENT APPROXIMATE EXISTING GRADE AT MANHOLE. CONTRACTOR TO VERIFY RIM ELEVATION AND DEPTH FOR BID AND CONSTRUCTION PURPOSES. MANHOLE RIMS TO BE CONSTRUCTED FLUSH WITH THE GROUND SURFACE IN IMPROVED AREAS, 6" ABOVE HIGHEST ADJACENT GRADE IN UNIMPROVED AREAS, AND A MINIMUM OF 12 INCHES ABOVE HIGHEST ADJACENT GRADE IN CANYON AREAS.
- FENCING CROSSINGS HAVE NOT BEEN INDICATED ON THE PLANS. CONTRACTOR TO PROTECT IN-PLACE OR REMOVE AND REPLACE AS REQUIRED BY FIELD CONDITIONS.
- ANY SOIL REMOVED FROM BENCHING REQUIRED FOR EQUIPMENT ACCESS/CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION GRADE IN ACCORDANCE WITH THE SOILS ENGINEERS RECOMMENDATIONS.
- AT COMPLETION OF PIPE LAYING, ALL MAIN SEWERS, SEWER SERVICES, MANHOLE MATERIALS AND STRUCTURES SHALL BE AIR TESTED, WAYNE BALLED, AND MANDRELLED IN THE PRESENCE OF THE DISTRICT ENGINEER.

SEWER NOTES continuation:

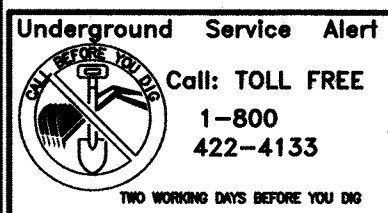
- DISTRICT REQUIRES TELEVISED INSPECTION OF THE SEWER MAINS. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH TELEVISED INSPECTION.
- EACH MANHOLE SHALL BE VACUUM TESTED IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING BY THE CONTRACTOR AND WITH DISTRICT SUPERVISION AFTER BACKFILLING.
- NO GROUT SHALL BE PLACED IN THE HORIZONTAL JOINTS BEFORE TESTING.
- A VACUUM OF 10 INCHES OF MERCURY SHALL BE DRAWN AND THE PUMP SHUT OFF. WITH ALL VALVES CLOSED, THE MANHOLE SHALL HOLD 10 INCHES OF MERCURY FOR 60 SECONDS.
- IF THE MANHOLE FAILS THE INITIAL TEST, NECESSARY REPAIRS SHALL BE MADE WITH A NON-SHRINK GROUT TO THE OUTSIDE WHILE THE VACUUM IS STILL BEING DRAWN. RETESTING SHALL PROCEED UNTIL A SATISFACTORY TEST IS OBTAINED.
- THE FUSION BEAD ON HDPE PIPE SHALL BE COMPLETELY REMOVED AND CONFIRMED BY VIDEO INSPECTION AS PART OF THE CONTRACTORS WORK.

OMWD WATER NOTES

- POTABLE WATER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND MATERIALS AS SPECIFIED IN THE MOST RECENT EDITION OF THE OLIVENHAIN MUNICIPAL WATER DISTRICT (DISTRICT) STANDARD SPECIFICATIONS AND DRAWINGS FOR THE CONSTRUCTION OF WATER MAINS AND FACILITIES, INCLUDING ALL AMENDMENTS ADOPTED PRIOR TO THE DISTRICT APPROVAL DATE ON THESE PLANS. CONTRACTOR SHALL HAVE A COPY OF THE STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- THE SUBMISSION AND REVIEW OF ALL SUBMITTALS (SHOP DRAWINGS, SIX SETS) AS REQUIRED BY THE STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE DISTRICT'S INSPECTOR.
- UNLESS OTHERWISE NOTED, CONNECTIONS TO EXISTING MAINS SHALL BE MADE DRY. THE TIME AND DURATION OF ANY SHUTDOWNS OF EXISTING MAINS SHALL BE SUBJECT TO APPROVAL BY THE DISTRICT.
- DISTRICT SHALL BE NOTIFIED TWO WEEKS MINIMUM IN ADVANCE OF ANY SHUTDOWN.
- CONTRACTOR SHALL COORDINATE WITH DISTRICT ALL ARRANGEMENTS FOR HIGH-LINING TEMPORARY SERVICES PRIOR TO SHUTDOWNS. NO SHUTDOWNS WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
- CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA. A COPY OF EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED, SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO CONSTRUCTION.
- NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF DISTRICT'S INSPECTOR. CONTRACTOR SHALL NOTIFY THE DISTRICT INSPECTIONS DEPARTMENT 48 HOURS PRIOR TO THE BEGINNING OF WORK TO ARRANGE FOR INSPECTION OF THE PROJECT.
- THE CONTRACTOR MUST CALL "DIG ALERT OF SOUTHERN CALIFORNIA" TO HAVE UNDERGROUND SERVICE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THIS CALL WILL BE MADE AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY WORK BEING PERFORMED IN PUBLIC RIGHT-OF-WAY. (DIG ALERT PHONE: 800-227-2600)
- ALL EXISTING FACILITIES WHICH MAY AFFECT PROJECT CONSTRUCTION, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED BEFORE ANY CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL PER THE STANDARD SPECIFICATIONS THE APPROPRIATE BURIED UTILITY WARNING AND IDENTIFICATION TAPE ABOVE ALL PUBLIC WATER LINES INCLUDING WATER LATERALS LOCATED IN PUBLIC RIGHT-OF-WAY.
- WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 48-INCHES BELOW CENTERLINE OF FINISH GRADE OF STREET.
- ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE BY USE OF JOINT COUPLINGS WITH 4" MAXIMUM DEFLECTION PER COUPLING (2" PER JOINT). NO BENDING (CURVING) OF PIPE SHALL BE PERMITTED.
- MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER MAIN PROFILE. PLACE MANUAL AIR RELEASES AND BLOW-OFFS WITHIN METER BOX AND LOCATE BEHIND CURB UNLESS OTHERWISE APPROVED BY DISTRICT'S REPRESENTATIVE. FIRE HYDRANTS MAY BE USED IN LIEU OF A MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED AT OR NEAR HIGH OR LOW POINTS, AS APPROVED BY THE DISTRICT'S REPRESENTATIVE.
- INSTALL A MINIMUM 1-INCH WATER SERVICE TO EACH LOT. METER TO BE LOCATED 5- FEET FROM A SIDE LOT LINE. A 3/4-INCH HIGH LETTER "W" SHALL BE CHISELED IN TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CROSSINGS.
- METER BOXES SHALL NOT BE PLACED WITHIN DRIVEWAYS OR SIDEWALKS WITHOUT THE DISTRICT'S PRIOR WRITTEN CONSENT.
- ALL WATER SERVICES FOR IRRIGATION, MULTIPLE RESIDENTIAL COMPLEXES, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL HAVE APPROVED BACKFLOW PREVENTION DEVICE ON CUSTOMER'S SIDE OF WATER METER.
- CONTRACTOR SHALL TIE OFF ALL VALVE LOCATIONS AND PROVIDE WRITTEN DIMENSIONS TO INSPECTOR IMMEDIATELY UPON INSTALLATION OF VALVES.
- LINE VALVES, WHERE REQUIRED AT STREET INTERSECTIONS SHALL BE LOCATED AT THE TEE WHENEVER POSSIBLE.
- FIRE HYDRANTS, AS APPROVED BY THE APPROPRIATE FIRE DISTRICT AND MEETING THE DISTRICT'S STANDARD SPECIFICATIONS, ARE TO BE INSTALLED AT LOCATIONS SPECIFIED BY THE FIRE DISTRICT.
- ALL DESIGN CHANGES TO THE WATER SYSTEM SHALL BE APPROVED BY THE DISTRICT REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE CHANGE.
- THE WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE OMWD STANDARD SPECIFICATIONS. THE CLASS OF PIPE SHALL BE USED AS THE DESIGNATED WORKING PRESSURE FOR TESTING ALL PIPE, VALVES (CLOSED) AND APPURTENANCES.
- PIPELINES AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 15041 OF THE OMWD STANDARD SPECIFICATIONS PRIOR TO TIE-IN OR CONNECTION TO EXISTING SYSTEM FACILITIES.
- BACTERIOLOGIC QUALITY TEST RESULTS SHALL CONFORM TO THE CRITERIA SPECIFIED IN THAT SPECIFICATION.
- CONTRACT RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF WORK. THE PLANS MUST PROVIDE POST CONSTRUCTION VERIFICATION OF THE LOCATION AND ELEVATION OF PIPES AND APPURTENANCES.
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE FOR THE PROJECT. CONTRACTOR SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE ONE-YEAR PERIOD FROM THE DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE DISTRICT, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLECT EXCEPTED.
- ALL IRRIGATION METERS SHALL BE SERVED WITH RECYCLED WATER UNLESS PREVIOUSLY APPROVED IN WRITING BY THE DISTRICT.
- ALL BURIED FITTINGS AND VALVES SHALL BE WAX TAPE WRAPPED IN ACCORDANCE WITH OMWD STANDARD SPECIFICATIONS.

GENERAL NOTES

- A PERMIT SHALL BE OBTAINED FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY WORK WITHIN THE STREET RIGHT-OF-WAY.
- THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARDS AND AS APPROVED BY THE MATERIALS LABORATORY.
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS & ELECTRIC CO. PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
NOTICE: ALL ELECTRICAL AND GAS SERVICES WITHIN THIS PROJECT ARE "UNDERGROUND INSTALLATIONS". FOR LOCATION OF ELECTRICAL CABLES AND GAS PIPING AND APPURTENANCES, CONTACT THE SAN DIEGO GAS & ELECTRICAL COMPANY. TELEPHONE: 1-800-750-2355
- THE CONTRACTOR SHALL NOTIFY AT&T PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK COMPANY REPRESENTATIVES.
NOTICE: ALL TELEPHONE SERVICES WITHIN THIS PROJECT BOUNDARY ARE "UNDERGROUND INSTALLATIONS". FOR LOCATIONS OF CABLES AND APPURTENANCES, CONTACT AT&T. TELEPHONE: 1-800-750-2355
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS, AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
- ALL TELEVISION SERVICES WITHIN THIS PROJECT ARE "UNDERGROUND INSTALLATIONS". FOR LOCATIONS OF CABLES AND APPURTENANCES CONTACT APPROPRIATE COMPANY.
- POWER SOURCES AND RUNS SERVING STREET LIGHTS SHALL BE SHOWN ON "AS-BUILT" IMPROVEMENT DRAWINGS. ALL SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY, OR WITHIN EASEMENTS DEDICATED TO THE COUNTY OF SAN DIEGO.
- NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
- PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE PLANS. (IF APPLICABLE).
- MINIMUM UNOBSTRUCTED PRIVATE ROAD WIDTH (FACE TO FACE OF CURB) SHALL BE 24 FEET.
- PRIVATE ROAD STRUCTURAL SECTION SHALL BE REVIEWED BY A QUALIFIED SOILS ENGINEER AND AS PER NOTE 2. GRADES SHALL BE A MINIMUM OF 1% AND MAXIMUM OF 15% AND DESIGNED TO DRAIN THE SURFACE DRAINAGE PROPERLY. ADEQUACY OF THE STRUCTURAL SECTION AND SURFACE DRAINAGE SHALL BE INSPECTED SET BY THE ENGINEER OF WORK.
- ALL CUT AND FILL SLOPES OVER THREE (3) FEET CREATED BY GRADING FOR STREETS AND DRIVEWAYS SHALL BE HYDROSEED WITH SAN DIEGO COUNTY APPROVED HYDROSEED MIXTURE. HYDROSEED SLOPES SHALL BE IRRIGATED BY WATER TRUCK UNTIL THE MIXTURE GERMINATES AND GROWTH IS ESTABLISHED.
- THE CONSTRUCTION OF ONE P.C.C. OR AC STANDARD RESIDENTIAL DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN FIELD BY ENGINEER OF WORK. AC SURFACING OF DRIVEWAY TO EXTEND FROM CURB PROPERTY LINE. USE STANDARD DRAWINGS G-14-G-15, G-16 & DS-7.
- CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ANY STRIPING PAVEMENT MARKERS; OR LEGENDS OBLITERATED BY THIS PROJECT.
- ALL SIGNS SHALL BE ALUMINUM WITH ENGINEER GRADE REFLECTIVE SHEETING EXCEPT FOR THE FOLLOWING WHICH SHALL HAVE HIGH INTENSITY REFLECTIVE SHEETING: R1, R1-2, W1, W2, W3, W4, W5, W6, W11, W14, W17, W28, W56, W57, AND W81.
- CONSTRUCTION PERMIT REQUIRED FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.



RANCHO SANTA FE FIRE DISTRICT

APPROVED BY: _____

DATE: _____

FIRE FLOW REQ: _____ GPM

SAN DIEGUITO ENGINEERING, INC

4407 MANCHESTER, SUITE 105
ENCINITAS, CA 92024
PHONE: (760) 753-5525

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

I CERTIFY THAT THE PRIVATE ROAD IMPROVEMENTS AS SHOWN ON THIS PLAN SATISFIES THE REQUIREMENTS AS STATED IN THE FINAL NOTICE OF APPROVAL FOR T.P.M. 17341 AND THE STANDARDS FOR PRIVATE STREETS.

Ivan R. Fox
IVAN FOX RCE# 38144

INSPECTION BY: _____

ENGINEER OF WORK
☒ COUNTY
SECURITY REQUIRED:
☒ YES

NO

THE COUNTY IS NOT LIABLE FOR THE DESIGN IN ANYWAY. REVIEWED FOR CLARITY ONLY.

BY: _____ DATE: _____
FOR COUNTY ENGINEER



| COUNTY APPROVED CHANGES | | | BENCH MARK | |
|-------------------------|-------------|------|--------------------|--------------|
| Description | Approved by | Date | DESCRIPTION: _____ | _____ |
| | | | LOCATION: _____ | _____ |
| | | | RECORD FROM: _____ | _____ |
| | | | ELEVATION: _____ | DATUM: _____ |

PRIVATE CONTRACT

SHEET **2** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS **6** SHEETS

IMPROVEMENT PLANS FOR:
COUNTY OF SAN DIEGO
TENTATIVE PARCEL MAP NO. 17341
PRIVATE ROAD

CAL. COORD. 310-1719 OMWD MAIN EXT. 251

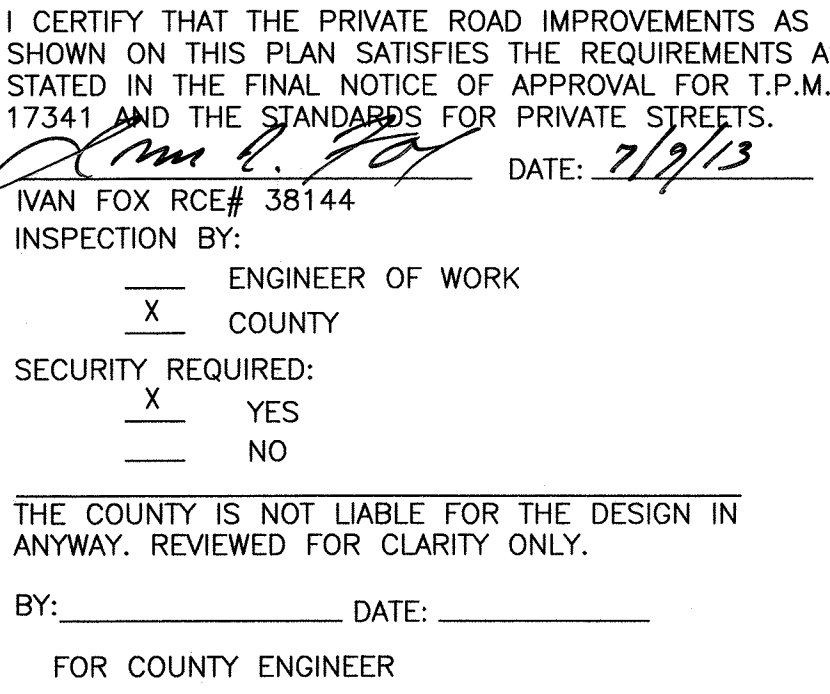
Recommended for Approval: N/A SUBDIVISION ENGINEER Approved: PVT. - SEE ABOVE DIRECTOR OF PUBLIC WORKS

Engineer of Work: *Ivan R. Fox* Approved: _____
IVAN R. FOX R.C.E. 38144 Approval date: _____

TPM17341

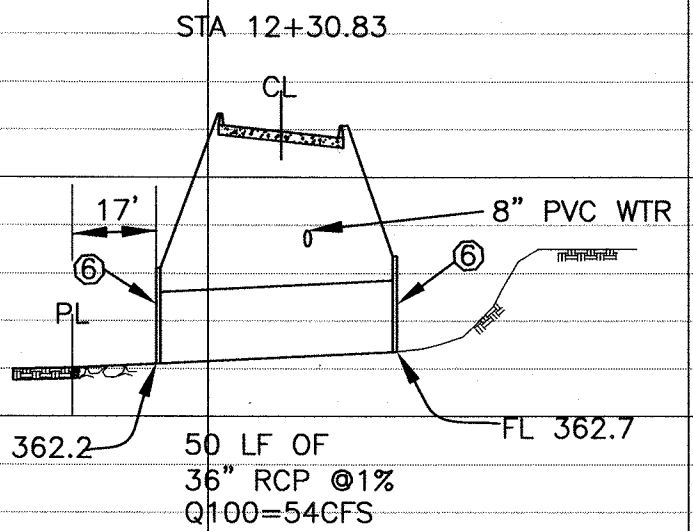


SCALE: HORIZ. 1" = 40'
 VERT. 1" = 8'



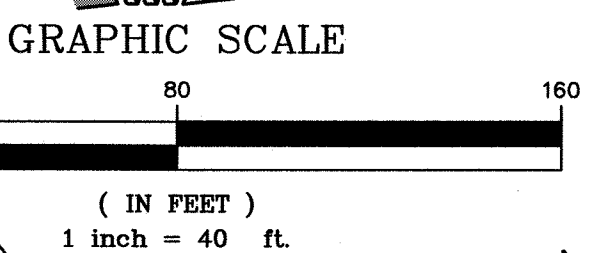
| Curve # | Radius | Length | Delta |
|---------|--------|--------|-------|
| C1 | 400.00 | 98.23 | 14.07 |
| C2 | 400.00 | 98.23 | 14.07 |
| C3 | 400.00 | 68.87 | 9.86 |
| C4 | 400.00 | 68.86 | 9.86 |
| C5 | 40.00 | 20.40 | 29.22 |

STORM DRAIN
CULVERT

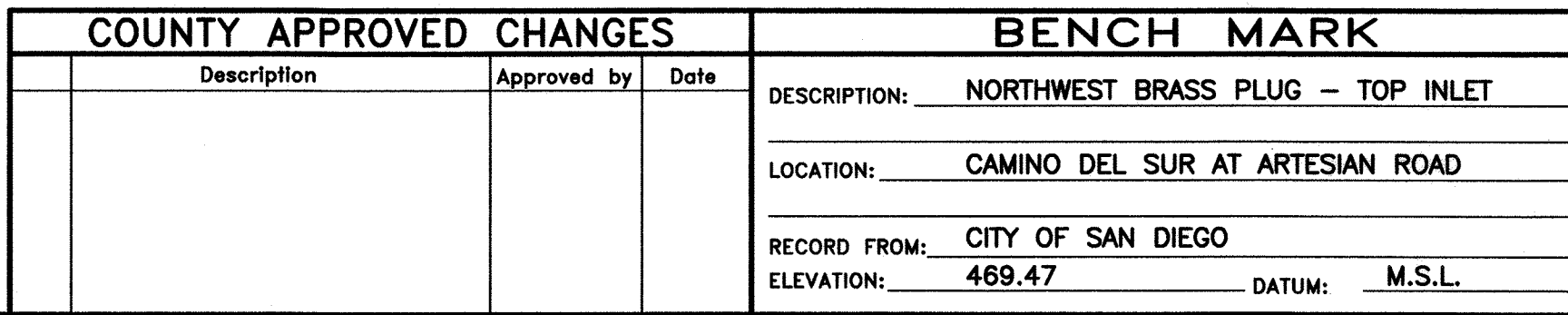
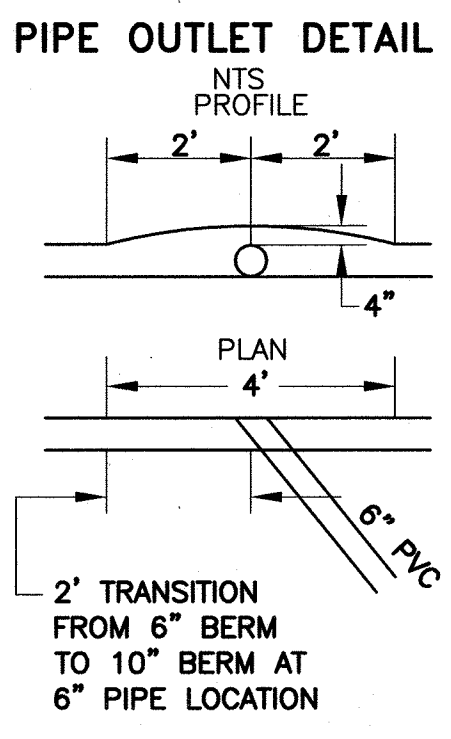



- ① CONSTRUCT BO PER RSD A1.1
- ② CONSTRUCT AIR VAC PER RSD A2.1
- ③ INSTALL TRACER WIRE PER OMWD STD SPEC 15292 SECTION 3.15
- ④ SDGE/TELCO TO BE RELOCATED
- ⑤ CONSTRUCT SPILLWAY PER RSD DS-22
- ⑥ CONSTRUCT WING HEADWALL PER RSD D-34
- ⑦ MATCH EXISTING
- ⑧ CONSTRUCT THRUST BLOCK FOR 90 DEGREE BEND PER OMWD STD DWG. NO. D-3.5
- ⑨ HYDRANT TYPE PER RANCHO SANTA FE FIRE DEPARTMENT ORDINANCE 507.5.1.1,3. FIRE HYDRANT ASSEMBLY PER OMWD STD. C1-1.1.
- ⑩ CONTRACTOR TO PROVIDE OPENING IN BERM
- ⑪ FOUR EXISTING WATER METERS TO BE RELOCATED AND EXTENDING SERVICES TO BE REMOVED.
- ⑫ CONTRACTOR TO EXTEND F.H. ASSEMBLY 9.6 FEET AND RELOCATED EXTENDING F.H.

NOTES



| Length | Radius | Delta |
|--------|---------|------------|
| 71' | 3.00' | 166°21'07" |
| 46' | 186.00' | 14°18'37" |
| 99' | 5.00' | 91°31'27" |
| 56' | 5.00' | 86°35'50" |

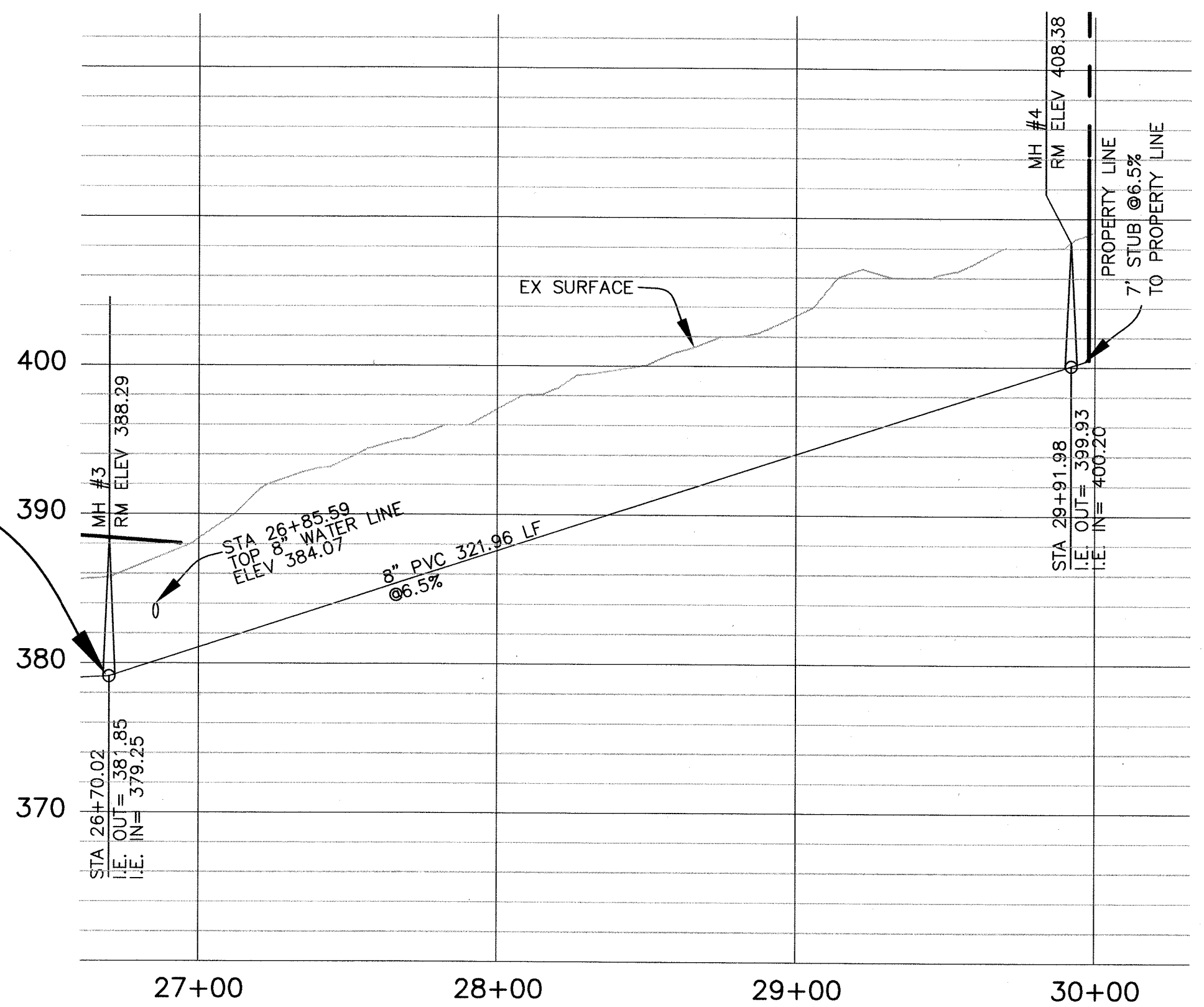
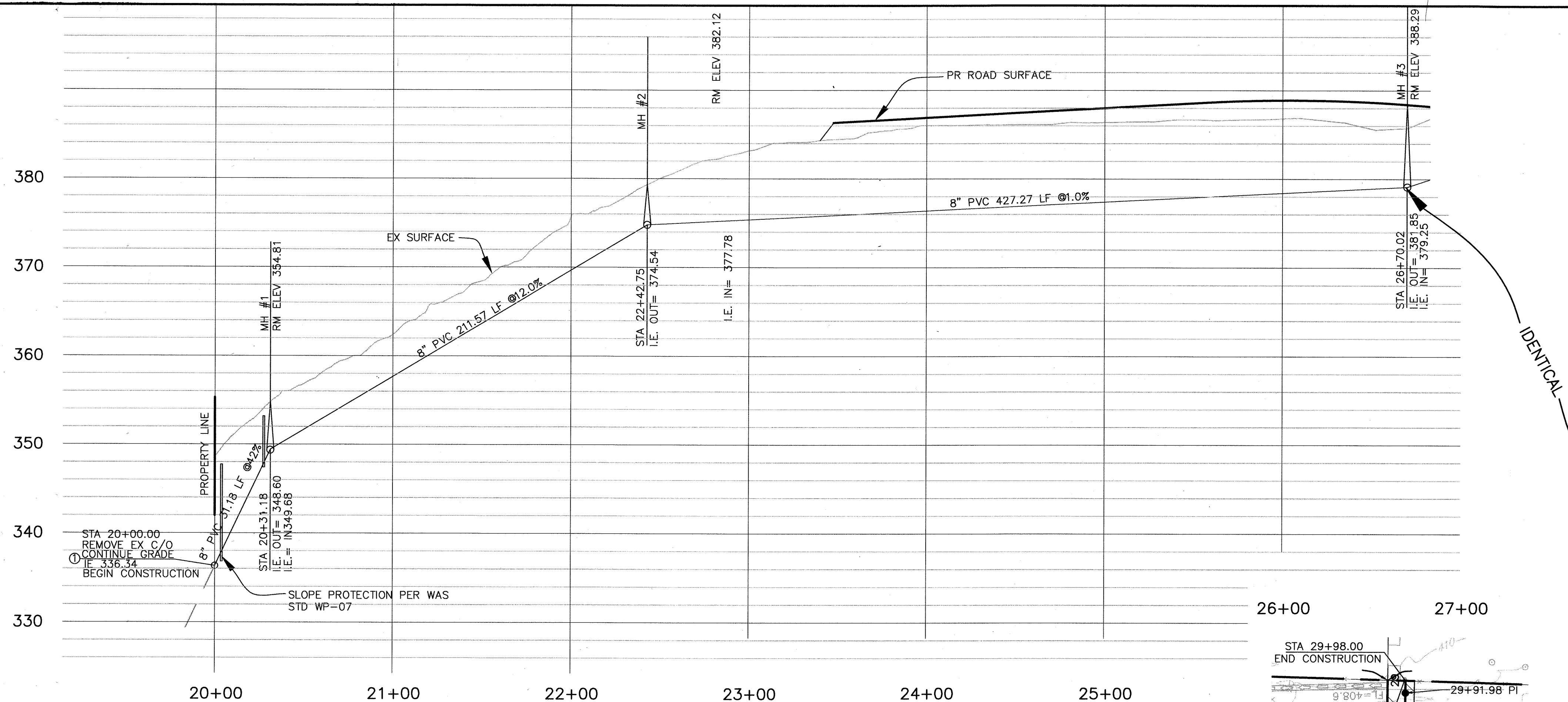


| | | | |
|---|---|--|--------------------|
| PRIVATE CONTRACT | | | |
| Sheet 3 | COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS | | 6 SHEETS |
| IMPROVEMENT PLANS FOR: STREET IMPROVEMENTS TENTATIVE PARCEL MAP NO. 17341 PRIVATE ROAD | | | |
| CAL. COORD. 310-1719 | | OMWD MAIN EXT. 251 | |
| Recommended for Approval: N/A SUBDIVISION ENGINEER | | Approved PVT. — SEE ABOVE DIRECTOR OF PUBLIC WORKS | |
| Engineer in Charge:  IVAN R. FOX R.C.E. 38144 | | Checked by: Approval date: TPM17341 | |

ENGINEER'S NAME: **SAN DIEGUITO ENGINEERING, INC.**
PHONE NO. **(760) 753-5525**

PROFILE

SCALE: HORIZ. 1"= 40'
VERT. 1"= 8'



| Curve Table: Sewer | | | |
|--------------------|--------|--------|-------|
| Curve # | Length | Radius | Delta |
| C60 | 96.08 | 215.00 | 25.61 |

| Line Table: Sewer | | |
|-------------------|--------|------------------|
| Line # | Length | Direction |
| L60 | 31.18 | S3° 52' 42.49"E |
| L61 | 115.49 | S1° 26' 39.10"W |
| L62 | 427.27 | S1° 26' 39.10"W |
| L63 | 321.96 | S89° 21' 07.22"E |

NOTES

- CONTRACTOR TO REMOVE C/O AND CONTINUE GRADE
- SEE PUMP TO GRAVITY LATERAL CONNECTION DETAIL

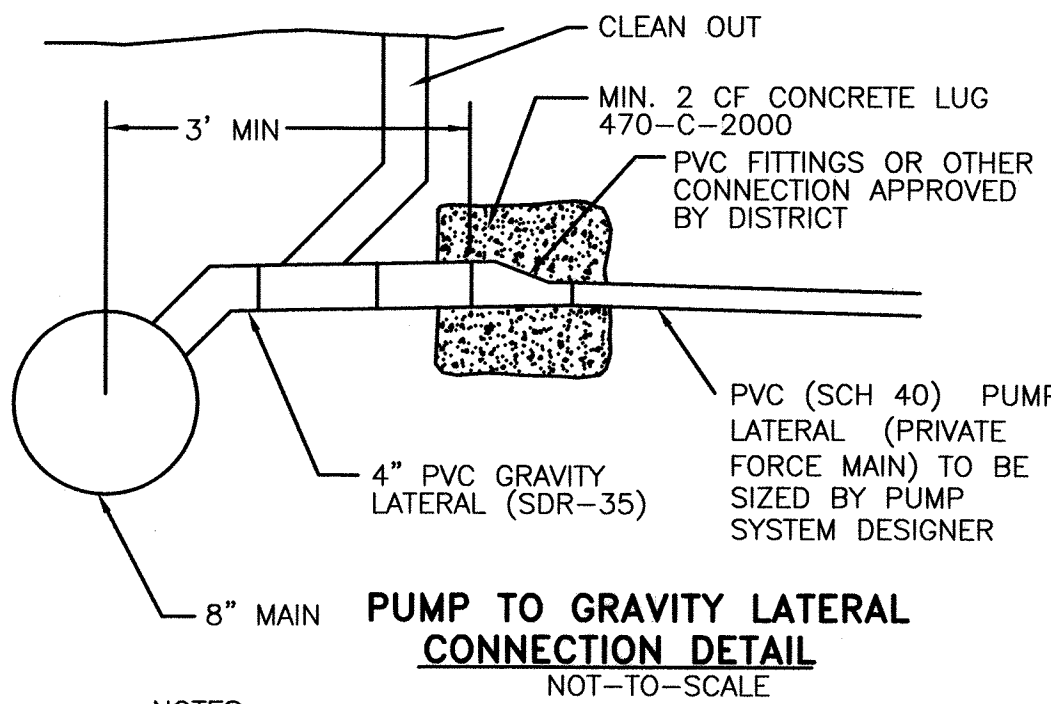
I CERTIFY THAT THE PRIVATE ROAD IMPROVEMENTS AS SHOWN ON THIS PLAN SATISFIES THE REQUIREMENTS AS STATED IN THE FINAL NOTICE OF APPROVAL FOR T.P.M. 17341 AND THE STANDARDS FOR PRIVATE STREETS.

Ivan R. Fox DATE: 6/6/13
IVAN FOX ROE# 38144

INSPECTION BY: _____ ENGINEER OF WORK
X COUNTY
SECURITY REQUIRED: _____ YES
_____ NO

THE COUNTY IS NOT LIABLE FOR THE DESIGN IN ANYWAY. REVIEWED FOR CLARITY ONLY.

BY: _____ DATE: _____
FOR COUNTY ENGINEER



NOTES:
PIPE LENGTHS ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE

| COUNTY APPROVED CHANGES | | |
|-------------------------|-------------|------|
| Description | Approved by | Date |
| | | |

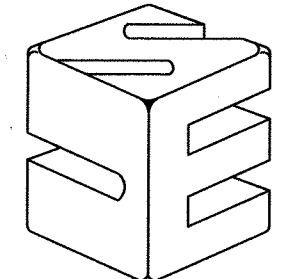
| BENCH MARK | |
|--------------|-----------------------------------|
| DESCRIPTION: | NORTHWEST BRASS PLUG -- TOP INLET |
| LOCATION: | CAMINO DEL SUR AT ARTESIAN ROAD |
| RECORD FROM: | CITY OF SAN DIEGO |
| ELEVATION: | 469.47 |
| DATUM: | M.S.L. |

| PRIVATE CONTRACT | | |
|---|---|----------------------------|
| SHEET 4 | COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS | 6 SHEETS |
| IMPROVEMENT PLANS FOR: SEWER IMPROVEMENTS TENTATIVE PARCEL MAP NO. 17341 PRIVATE ROAD | | |
| CAL. COORD. 310-1719 | | OMWD MAIN EXT. 251 |
| Recommended for Approval: N/A SUBDIVISION ENGINEER | Approved PVT. -- SEE ABOVE DIRECTOR OF PUBLIC WORKS | |
| Engineer of Work: <i>Ivan R. Fox</i> IVAN R. FOX R.O.E. 38144 | Checked by: | Approval date: TPM17341 |

APPROVED BY: _____

DATE: _____

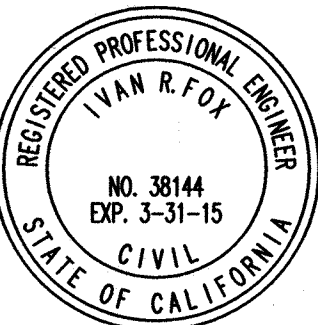
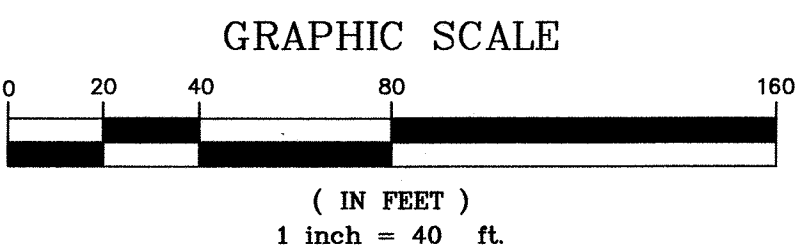
FIRE FLOW REQ: _____ GPM



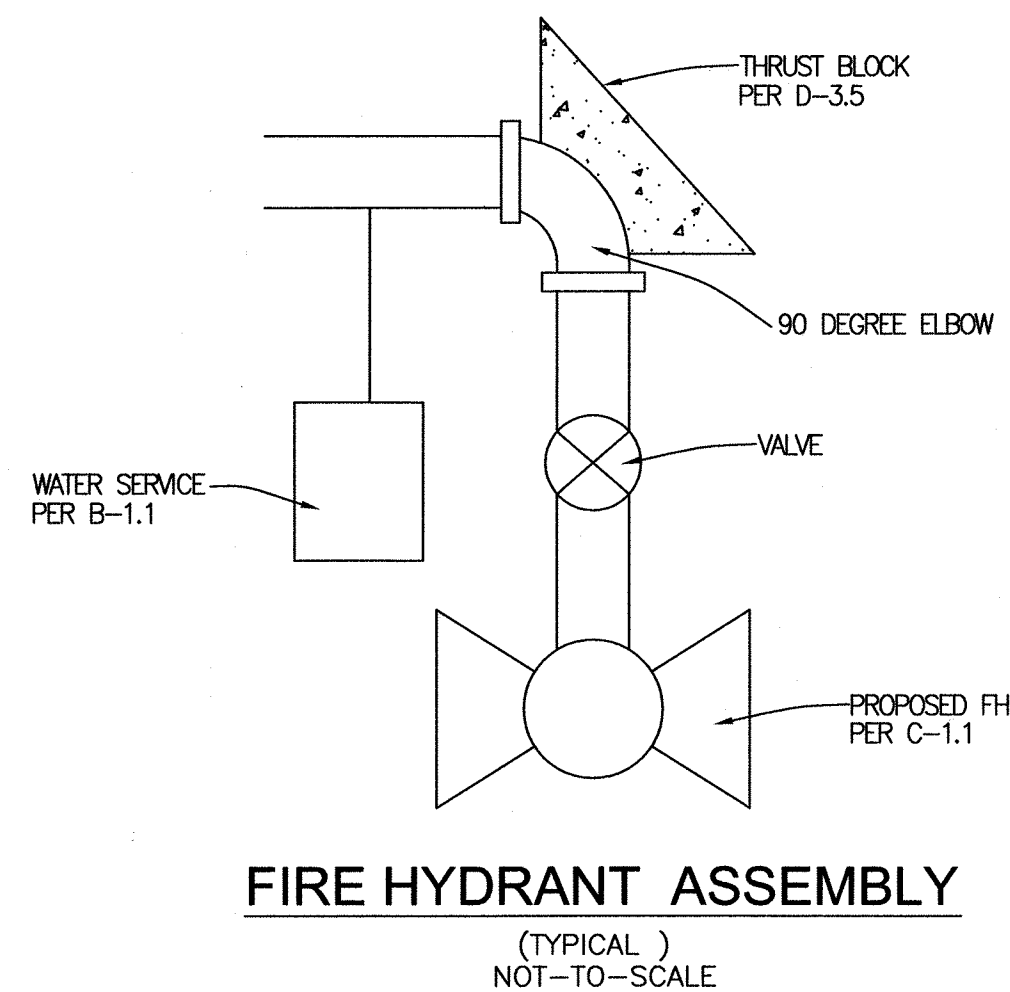
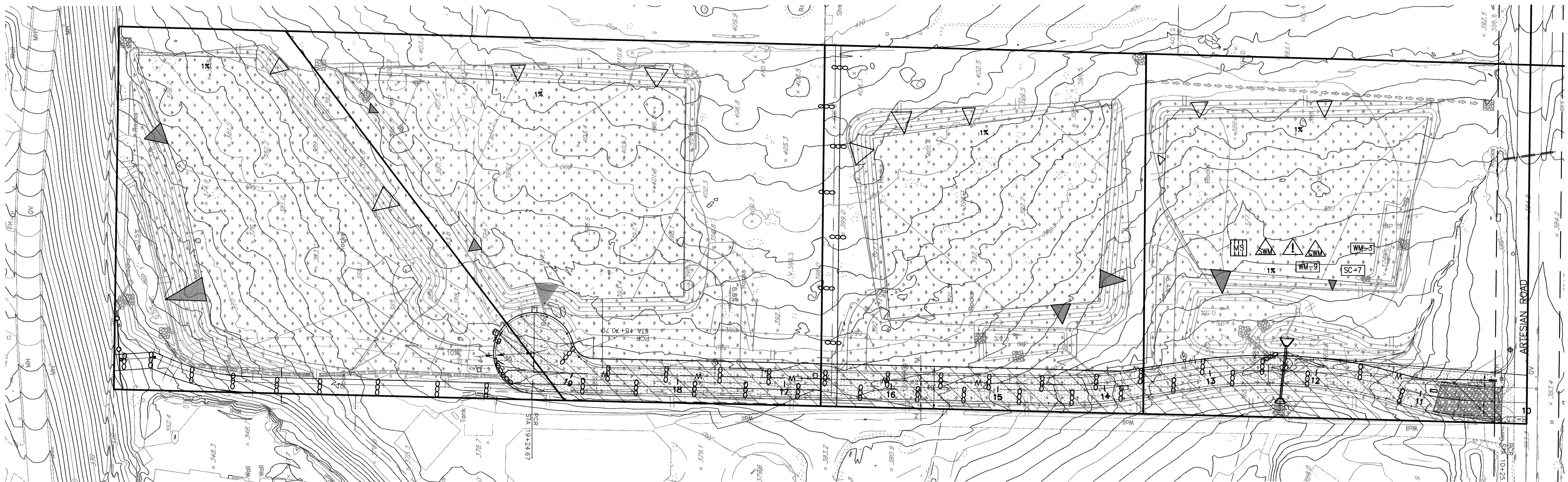
SAN DIEGUITO ENGINEERING, INC

4407 MANCHESTER, SUITE 105
ENCINITAS, CA 92024
PHONE: (760) 753-5525

CIVIL ENGINEERING • PLANNING
LAND SURVEYING

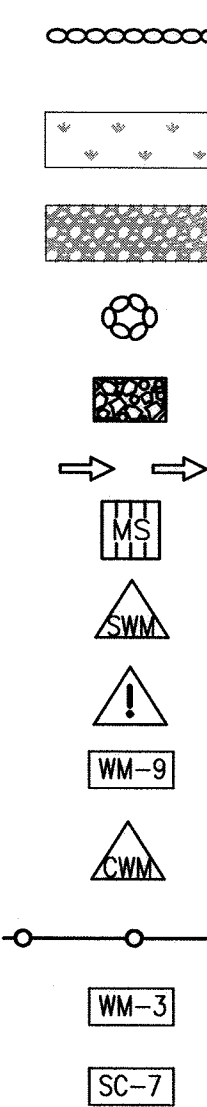


ENGINEER'S NAME: SAN DIEGUITO ENGINEERING, INC.
PHONE NO. (760) 753-5525



BMP LEGEND

- GRAVEL BAGS PER SC-4, SC-6
- HYDROSEEDING, PLANTING, GEOTEXTILES, MATS & FIBER ROLLS PER SS-2, SS-3, SS-4, & SS-7.
- STABILIZED CONSTRUCTION ENTRANCE PER TC-1.
- INLET PROTECTION PER SC-10.
- OUTLET PROTECTION PER RSD D-40
- DITCHES & BERMS PER SS-9.
- MATERIAL DELIVERY AND STORAGE AREA PER WM-1
- SOLID WASTE MANAGEMENT PER WM-5
- HAZARDOUS WASTE MANAGEMENT PER WM-6
- SANITARY WASTE MANAGEMENT WM-9
- CONCRETE WASTE MANAGEMENT PER WM-8
- SILT FENCE PER SC-1
- STOCKPILE MANAGEMENT
- STREET SWEEPING AND VACUUMING PER SC-7



I CERTIFY THAT THE PRIVATE ROAD IMPROVEMENTS AS SHOWN ON THIS PLAN SATISFIES THE REQUIREMENTS AS STATED IN THE FINAL NOTICE OF APPROVAL FOR T.P.M. 17341 AND THE STANDARDS FOR PRIVATE STREETS.

DATE: 7/9/13
I.R. FOX RCE# 38144

INSPECTION BY: _____
ENGINEER OF WORK
X COUNTY
SECURITY REQUIRED:
X YES
NO

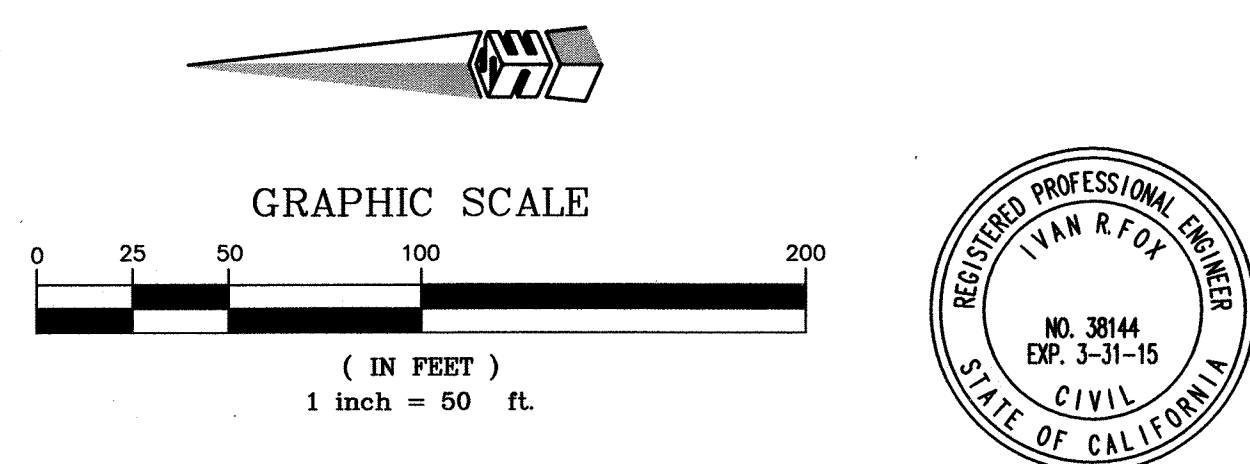
THE COUNTY IS NOT LIABLE FOR THE DESIGN IN ANYWAY. REVIEWED FOR CLARITY ONLY.

BY: _____ DATE: _____
FOR COUNTY ENGINEER

| COUNTY APPROVED CHANGES | | | BENCH MARK | |
|-------------------------|-------------|------|--------------|----------------------------------|
| Description | Approved by | Date | DESCRIPTION: | NORTHWEST BRASS PLUG - TOP INLET |
| | | | LOCATION: | CAMINO DEL SUR AT ARTESIAN ROAD |
| | | | RECORD FROM: | CITY OF SAN DIEGO |
| | | | ELEVATION: | 469.47 |
| | | | DATUM: | M.S.L. |

| PRIVATE CONTRACT | | |
|---|---|--------------------|
| SHEET 5 | COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS | 6 SHEETS |
| EROSION CONTROL PLANS FOR: BMP IMPROVEMENTS TENTATIVE PARCEL MAP 17341 PRIVATE ROAD | | |
| CAL. COORD. 310-1719 | | OMWD MAIN EXT. 251 |
| Recommended for Approval: N/A SUBDIVISION ENGINEER | Approved: PVT. - SEE ABOVE DIRECTOR OF PUBLIC WORKS | |
| Engineer of Work: IVAN R. FOX R.C.E. 38144 | Checked by: TPM 17341 | |

| RANCHO SANTA FE FIRE DISTRICT | |
|--|--|
| APPROVED BY: _____ | |
| DATE: _____ | |
| FIRE FLOW REQ: _____ GPM | |
| SAN DIEGUITO ENGINEERING, INC. 4407 MANCHESTER, SUITE 105 ENCINITAS, CA 92024 PHONE: (760) 753-5525 | |
| CIVIL ENGINEERING • PLANNING LAND SURVEYING | |



EROSION CONTROL NOTES

- IN CASE EMERGENCY WORK IS REQUIRED, CONTACT KEN AYERS AT (619) 857-5974.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS EMINENT.
- DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF RESPONSIBLE PERSONNEL FOR THE SWPPP.
- THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE (5) DAY RAIN PROBABILITY FORECAST EXCEEDS FORTY PERCENT (40%). SILT AND OTHER DEBRIS SHALL BE REMOVED AFTER EACH RAINFALL.
- ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4 INCH MINIMUM AGGREGATE.
- DISTURBED SOIL AREAS THAT ARE FLAT AND LESS THAN 5% SLOPE, MAY HAVE TRACKING, MULCH, WOOD CHIPS, HYDROSEEDING WITHOUT WATERING, JUTE MATTING OR JUTE NETTING AS A MEANS TO PROTECT EXPOSED SLOPES FROM EROSION.

BONDED FIBER MATRIX

BONDED FIBER MATRIX SHALL BE APPLIED TO ALL FINISHED SLOPES IMMEDIATELY UPON COMPLETION PER THE FOLLOWING:

- APPLICATION RATES SHALL BE 3500 POUNDS PER ACRE MINIMUM FOR 2:1 OR SHALLOWER SLOPES AND 4000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1.
- BFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL.
- THE SITE MUST BE PROTECTED WITH BROW DITCHES AND/OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM FACE OF THE SLOPE.
- BFM SHALL BE APPLIED TO PROVIDE 100% COVERAGE (I.E. APPLICATION FROM MULTIPLE ANGLES).
- FOR PERMANENT EROSION CONTROL PURPOSES, BFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION.
- A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE BFM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE COUNTY INSPECTOR FOR APPROVAL.

GRAVEL BAG NOTES

- GRAVEL BAGS SHALL BE PLACED ALONG ALL STREET AND DRIVEWAYS BASED UPON THE FOLLOWING FORMULA:

GRAVELBAGS SPACING (FEET)= $\frac{1.5'}{\text{STREET SLOPE}}$

EXAMPLE: 12.00% STREET $\frac{1.5'}{0.12}$ = 12.5' SPACING
- CONTRACTOR SHALL ASSUME RESPONSIBILITY TO PLACE ANY ADDITIONAL GRAVEL BAGS AS NECESSARY TO PREVENT SITE EROSION.
- SITE HOUSEKEEPING IS TO BE MAINTAINED ON A REGULAR BASIS SUCH AS REMOVING SILT FROM BASINS, ADJUSTING/REPLACING SAND BAGS AND ONGOING MATERIAL CLEANUP.
- STABILIZATION OF SLOPES IS REQUIRED UPON COMPLETION OF SLOPE CONSTRUCTION. (I.E., HYDROSEED PLANTING, PUNCHED STRAW, ETC.).
- CONTRACTOR SHALL HAVE THE OPTION TO UTILIZE AT HIS OR HER DESCRETION GRAVEL BAGS, STRAW BALE DIKE OR SILT-FENCE PER DETAILS ON THIS SHEET.

SOIL STABILIZATION FOR 5% AND FLATTER

FLAT AREAS OF LESS THAN 5%(LIKE BUILDING PADS, PARKING AREAS, LEACH FIELDS) SHALL HAVE 100% PROTECTION USING GEOTEXTILES, MATS (SS-7 OR ESC20), OR OTHER MATERIAL APPROVED BY THE COUNTY FOR STABILIZING SLOPES, OR USING MULCH/WOOD CHIPS (SS-3, SS-6, SS-8), OR JUTE MATTING (SS-7), THE COUNTY MAY REDUCE THIS REQUIREMENT FOR FLAT AREAS, PROVIDED FULL SEDIMENT CONTROL IS PROVIDED THROUGH CONSTRUCTED AND MAINTAINED DESILTATION BASINS (SC-2) AT ALL PROJECT DISCHARGE POINTS.

AREAS OF GRADED PADS THAT HAVE ACTIVE STRUCTURE CONSTRUCTION UNDERWAY MAY BE PROTECTED BY ROLLED PLASTIC AS PART OF A WEATHER-TRIGGERED ACTION PLAN UNTIL THE STRUCTURE'S ROOF HAS BEEN COMPLETED. THE REMAINDER OF THE PAD AREAS MUST CONTINUE TO BE PROTECTED USING EROSION CONTROL MEASURES AS IDENTIFIED ON THIS PLAN

EMERGENCY EROSION CONTROL MEASURES NOTES

- ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
- MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY & HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
- AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1 ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1 AND APRIL 30, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEM SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- GRAVEL BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE GRAVEL BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

SILTATION AND SEDIMENT CONTROL MEASURES

- THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL PRODDIBLE SLOPES.
- SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
- UTILITY TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE.
- ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION, TWO GRAVEL BAGS BELOW THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:

| GRADE OF THE STREET | INTERVAL |
|---------------------|-------------|
| LESS THAN 2% | AS REQUIRED |
| 2% TO 4% | 100 FEET |
| 4% TO 10% | 50 FEET |
| OVER 10% | 25 FEET |

- AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
- ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
- PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS BELOW:

| GRADE OF CHANNEL | INTERVALS BETWEEN CHECK DAMS |
|------------------|------------------------------|
| LESS THAN 3% | 100 FEET |
| 3% TO 6% | 50 FEET |
| OVER 6% | 25 FEET |

- PROVIDE VELOCITY CHECK DAMS IN ALL PAVED STREET AREAS ACCORDING TO INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE COUNTY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.

| GRADE OF THE STREET | INTERVAL | NO. OF BAGS HIGH |
|---------------------|-----------------------|------------------|
| LESS THAN 2% | AS REQUIRED, 200' MAX | 1 |
| 2% TO 4% | 100 FEET | 1 |
| 4% TO 6% | 50 FEET | 1 |
| 6% TO 10% | 50 FEET | 2 |
| MORE THAN 10% | 25 FEET | 2 |

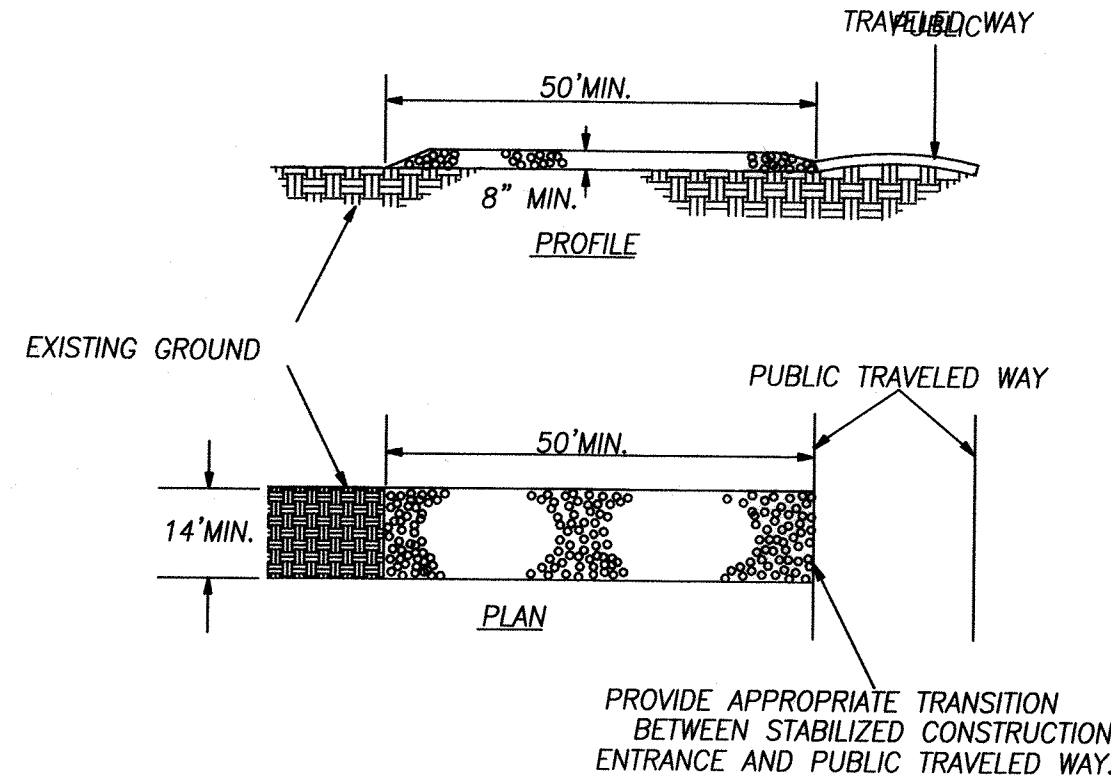
- PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
- GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
- ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM. IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
- PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR FROM IMPERVIOUS SURFACES.
- ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES; I.E., COUNTY ENGINEER, DEPARTMENT OF SANITATION AND FLOOD CONTROL, OFFICE OF ENVIRONMENTAL MANAGEMENT, ETC.

BMP STENCIL PLACEMENT NOTES

- ALL STORM DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA SHALL HAVE A STENCIL OR TILE PLACED WITH PROHIBITIVE LANGUAGE (SUCH AS: "NO DUMPING-I LIVE IN ESCONDIDO CREEK") AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING.
- SIGNS AND PROHIBITIVE LANGUAGE AND/OR GRAPHICAL ICONS, WHICH PROHIBIT ILLEGAL DUMPING, MUST BE POSTED AT PUBLIC ACCESS POINTS ALONG CHANNELS AND CREEKS WITHIN THE PROJECT AREA.
- LEGIBILITY OF STENCILS, TILES AND SIGNS MUST BE MAINTAINED AND TILES MUST BE PLACED FLUSH WITH THE TOP OF CONCRETE TO REDUCE TRIPPING BY PEDESTRIANS.

STORMWATER MANAGEMENT NOTES

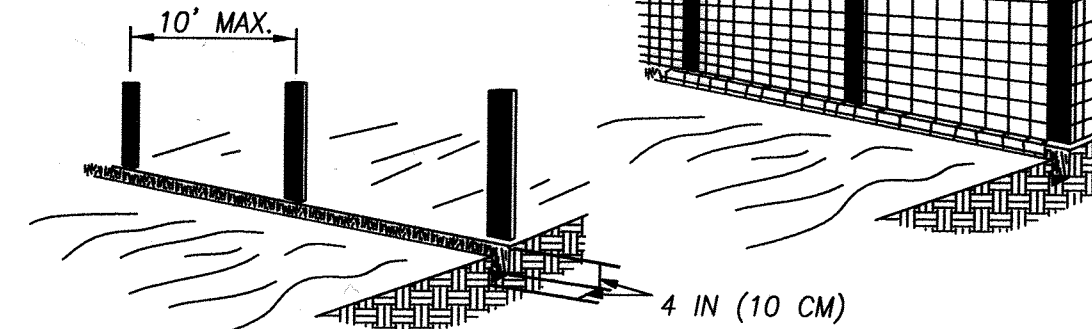
- DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTCTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125 SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
- NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY DPW DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NTO ACTIVELY GRADED FOR 15 DAY S MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
- THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORM WATER REGULATIONS AT ALL TIMES. THE BMP'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED, OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
- A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS NOT YET ASSIGNED, BUT WILL BE PROVIDED BEFORE A PERMIT IS ISSUED, THE PERMITEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.



Ⓐ STABILIZED CONSTRUCTION ENTRANCE

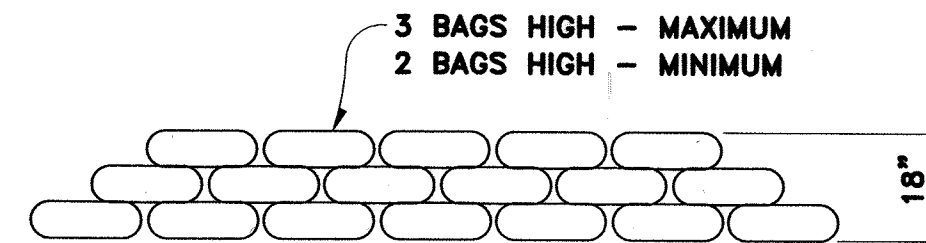
CONTRACTOR IS RESPONSIBLE TO ENSURE SHEET FLOW IS MAINTAINED ACROSS FLOW BARRIERS.

- SET POSTS AND EXCAVATE A 4 BY 4 IN (10 BY 10 CM) TRENCH UPSLOPE FROM AND ALONG THE LINE OF POSTS.
- STAPLE WIRE FENCING TO THE POSTS.

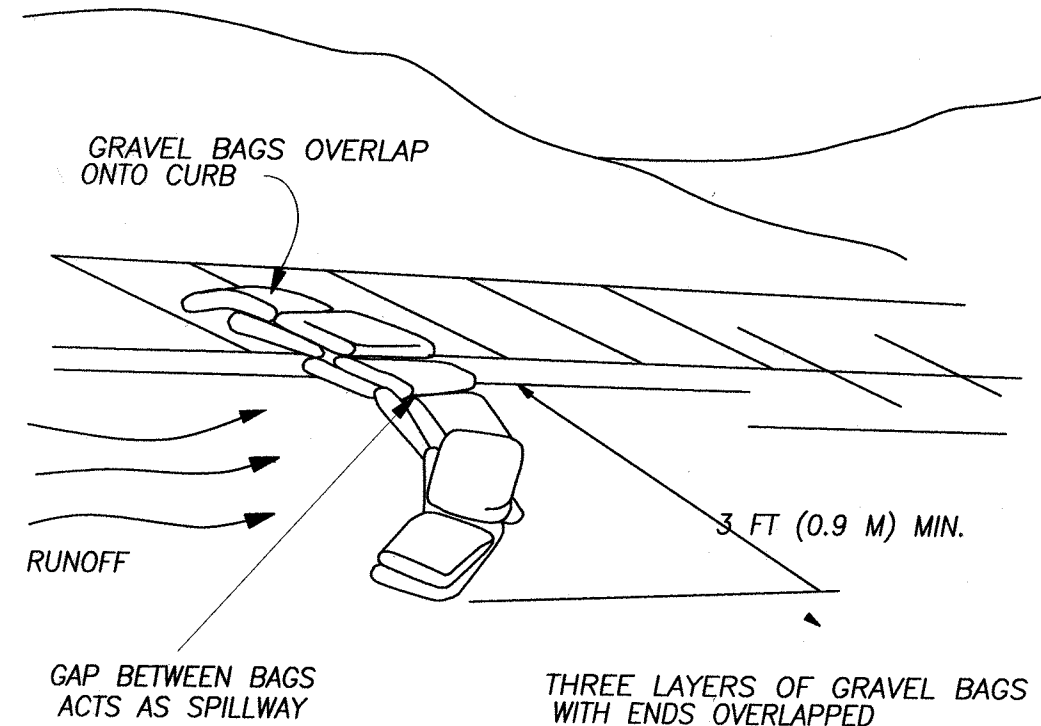


- ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
- BACKFILL AND COMPACT THE EXCAVATED SOIL.

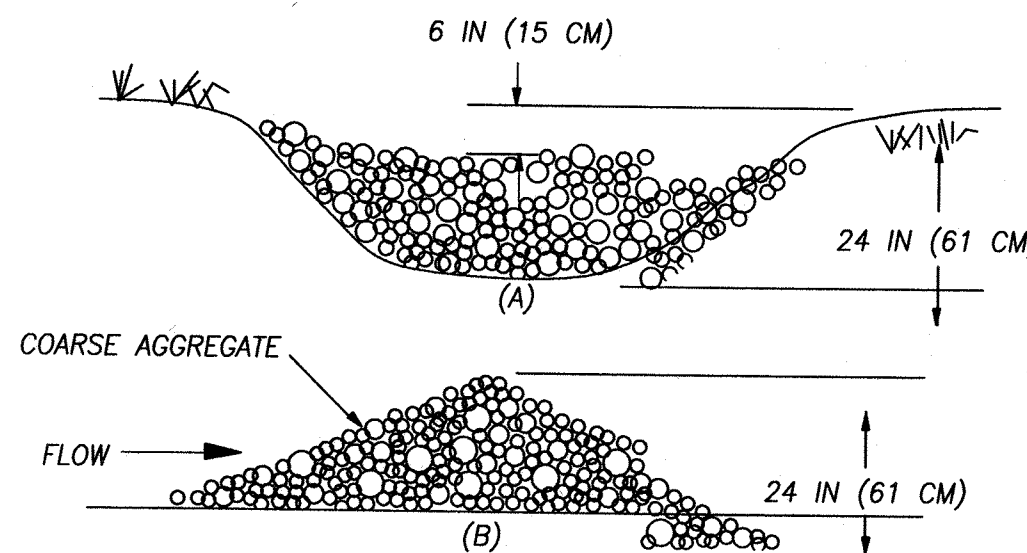
Ⓒ SILT FENCE



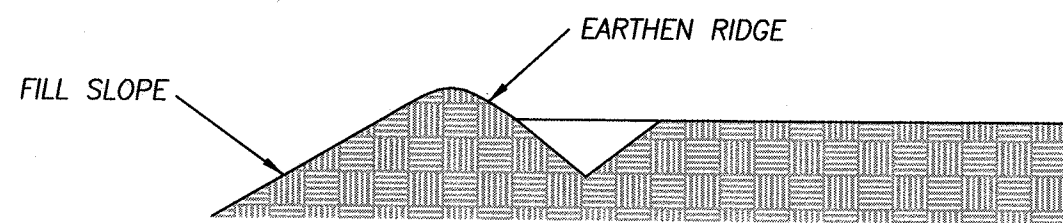
Ⓔ TEMPORARY GRAVEL BAG CHECK DAM



Ⓑ GRAVEL BAGS



Ⓓ GRAVEL CHECK DAM



Ⓕ UNLINED SWALE & BERM



| PRIVATE CONTRACT | | |
|---|---|-----------|
| SHEET 6 | COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS | 6 SHEETS |
| EROSION CONTROL PLANS FOR: BMP IMPROVEMENTS TENTATIVE PARCEL MAP 17341 PRIVATE ROAD CAL. COORD. 310-1719 OWMW MAIN EXT. 251 | | |
| Recommended for Approval: N/A SUBDIVISION ENGINEER | Approved: PVT. - SEE ABOVE DIRECTOR OF PUBLIC WORKS | |
| Engineer of Work: Ivan R. Fox R.G.E. 38144 | Checked by: Approval date: | TPM 17341 |

| COUNTY APPROVED CHANGES | | | BENCH MARK | |
|-------------------------|-------------|------|----------------------------------|---------------|
| Description | Approved by | Date | DESCRIPTION: | |
| | | | NORTHWEST BRASS PLUG - TOP INLET | |
| | | | CAMINO DEL SUR AT ARTESIAN ROAD | |
| | | | RECORD FROM: CITY OF SAN DIEGO | |
| | | | ELEVATION: 469.47 | DATUM: M.S.L. |

ENGINEER'S NAME: SAN DIEGUITO ENGINEERING, INC. PHONE NO. (760) 753-5525